



# Latch Systems WTR1 Water Leak Sensor Installation Guide

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# LATCH

## Latch Systems WTR1 Water Leak Sensor

Latch Systems WTR1 Water Leak Sensor-fig1

### Things you should know

- The Latch Water Sensor must be paired with the Latch Hub for residents and staff to receive alerts.
- The Latch Hub must be installed and connected to a network prior to pairing with the Latch Water Sensor.
- The Latch Water Sensor can be deployed on the ground or mounted on a wall.

### Included in the Box:

- Latch Water Sensor
- Extension probe cable
- Adhesive strips
- CR2 battery

#### **Not Included in the Box:**

Philips head screwdriver

#### **Normal Product Operation**

1. The green LED light will stay off during normal operation.
2. When the probes come into contact with water, the Latch Water Sensor will transmit an alarm signal to the Latch Hub and audibly beep with a built-in buzzer.
3. When water is detected, the buzzer goes on for 1.5 seconds and repeats every 20 seconds for 10 minutes. After 10 minutes, the buzzer will go off every 10 minutes for 1.5 seconds for up to 2 hours.
4. When the water level subsides, the Latch Water Sensor will transmit an alarm restore signal and stop the alarm. The Latch Water Sensor then returns to Normal Operation Mode.

#### **Specifications**

- Features
- Compact design
- 350 meters RF transmission range
- Built-in ambient temperature sensor and alarm buzzer
- Easy to install and remove
- Battery life 5 years
- Low battery alert
- ZigBee 3.0 certified
- .OTA upgrade
- Two type of sensing probe for the unit, to be wall mounted or deployed on the ground
- A plugable water probe through (1.0M) wire
- **Environmental**
  - Operating Temperature: 0 -50°C (320-122F); Humidity: 10% -80% RH (non-condensing)
  - Storage Temperature:-20°-60°C (-40-140F); Humidity: -20% – 60% RH (non-condensing)
- **Specs**
  - Radio Frequency: 2.4GHz
  - RF Communication Range: Open Air: 350M (max.)
  - Switch: Reset x 1
  - LED Indicator: Reset x
  - Battery: CR2 x 1
  - Average Battery Life: 5 Years
  - ZigBee Profile: HA1.2.1
  - Temperature Sensor: Accuracy: +/-1 degree
  - Dimensions (Hx Wx L): 48mm x 48mm x 20.5mmn

- Compliance: FCC, IC, CE, ZigBee

## Troubleshooting

### To Reset

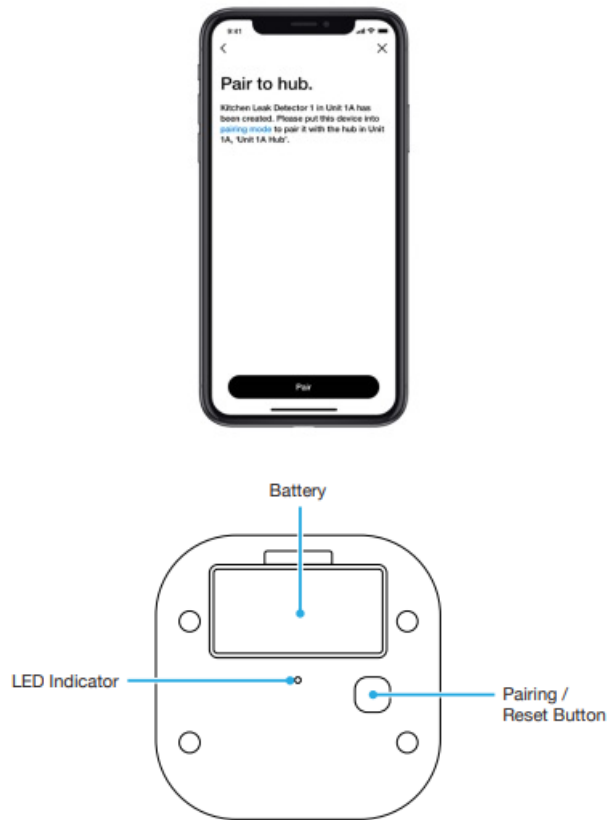
1. Open the top cover.
2. Remove the CR2 battery.  
While holding down the reset button, re-insert the battery.
3. When the Green LED lights up, release the reset button.
4. The sensor is now reset to factory default and will initiate pairing mode. Device will need to be repaired with the Hub in order to work again.

### To Reboot

1. Open the top cover.
  2. Remove the CR2 battery.
  3. Wait 10 seconds and re-insert the battery
  4. When the LED lights up, the reboot is complete.
  5. Place the cover back on.
- Scan QR code. Follow the instructions in the Latch Manager App to assign a device to a unit or common space.



- Put hub into pairing mode. Tap 'Pair' button after the device has been created to put the hub in pairing mode.

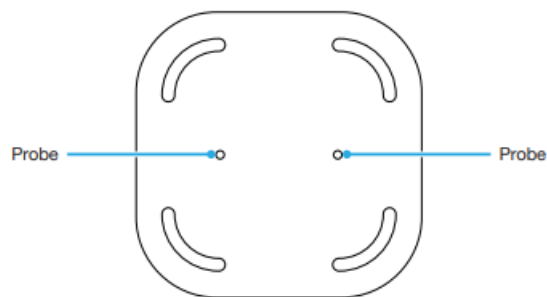


**Note:** If a network is not found after 100 seconds, the sensor will go into sleep mode. To wake the sensor again, press the

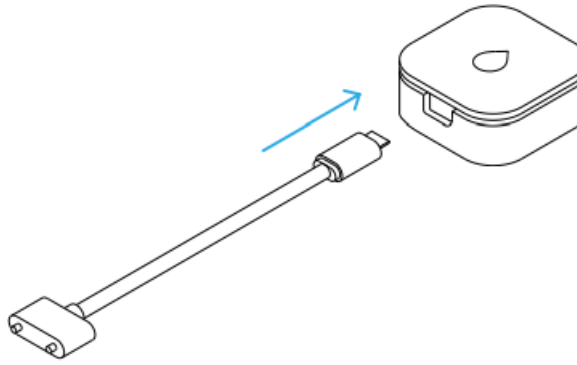
pairing button once to trigger the pairing process

Put leak sensor into pairing mode. When the battery is first inserted, the leak sensor will enter pairing mode for 30 seconds.

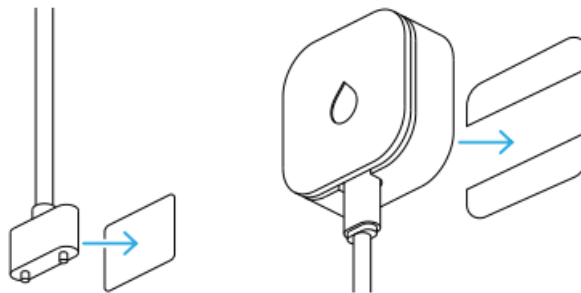
- If deploying the Latch Water Sensor on the ground, probes should face the floor.



- If mounting the Latch Water Sensor on the wall, connect the external extension probe. Remove the waterproof plug that covers the USB interface and connect the extension water probe into the device terminal.



- In order for the sensor to work, both probes must have contact with water. Attach probes to a clean, dry surface using adhesive pad.
- Adjust the height of the main unit and secure with an adhesive pad on a clean, dry surface.



## Federal Communications Commission (FCC) Compliance Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

### The FCC ID for this device is 2AK5B-WTR1.

You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

## FCC RF Radiation Exposure Statement

- This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.


- This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment.
- This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

### Industry Canada (IC) Compliance Statement

This device complies with Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditions: (1) This device may not cause interference; and (2) This device must accept any interference, including interference that may cause undesired operation of the device.

The device meets the exemption from the routine evaluation limits in section 2.5 of RSS 102 and compliance with RSS-102 RF exposure, users can obtain Canadian information on RF exposure and compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

### Documents / Resources

	<p><a href="#">Latch Systems WTR1 Water Leak Sensor</a> [pdf] Installation Guide WTR1, 2AK5B-WTR1, Water Leak Sensor</p>
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[Manuals+](#)